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| APPLICATION NO.                           | FILING DATE       | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO.        |  |
|---|-------------------|----------------------|---------------------|-------------------------|--|
| 10/786,131                                | 02/26/2004        | Hiroshi Okamoto      | 1131-0501P          | 3478                    |  |
| 2292 75                                   | 590 11/14/2006    | EXAMINER             |                     |                         |  |
|   | VART KOLASCH & BI | FELTON, MICHAEL J    |                     |                         |  |
| PO BOX 747<br>FALLS CHURCH, VA 22040-0747 |                   |                      | ART UNIT            | PAPER NUMBER            |  |
|   |                   |                      |                     | 1731                    |  |
|   |                   |                      |                     | DATE MAILED: 11/14/2006 |  |

Please find below and/or attached an Office communication concerning this application or proceeding.

|  |   | Application No.             | Applicant(s)  | Applicant(s)     |  |  |  |
|--|---|-----------------------------|---|------------------|--|--|--|
| Office Action Summary  |   | 10/786,131                  | OKAMOTO, HIRO   | OKAMOTO, HIROSHI |  |  |  |
|  |   | Examiner                    | Art Unit  |                  |  |  |  |
|  |   | Michael J. Felton           | 1731  |                  |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address<br>Period for Reply  |   |                             |   |                  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). |   |                             |   |                  |  |  |  |
| Status   |   |                             |   |                  |  |  |  |
| 1) 又   | Responsive to communication(s) filed on   | 26 February 20 <u>04</u> .  |   |                  |  |  |  |
|  | •   | This action is non-final.   |   |                  |  |  |  |
| • —  | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is |                             |   |                  |  |  |  |
| ,  | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.                       |                             |   |                  |  |  |  |
| Disposition of Claims  |   |                             |   |                  |  |  |  |
| 4)🖂  | 4) Claim(s) <u>1-4</u> is/are pending in the application.   |                             |   |                  |  |  |  |
| -  | 4a) Of the above claim(s) is/are withdrawn from consideration.  |                             |   |                  |  |  |  |
| 5)□  | 5) Claim(s) is/are allowed.   |                             |   |                  |  |  |  |
| 6)⊠  | )⊠ Claim(s) <u>1-3</u> is/are rejected.   |                             |   |                  |  |  |  |
| 7)🛛  | Claim(s) 4 is/are objected to.  |                             |   |                  |  |  |  |
| 8)[  | Claim(s) are subject to restriction a   | ind/or election requirement | i.  |                  |  |  |  |
| Application Papers   |   |                             |   |                  |  |  |  |
| 9) The specification is objected to by the Examiner.   |   |                             |   |                  |  |  |  |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.   |   |                             |   |                  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |   |                             |   |                  |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).   |   |                             |   |                  |  |  |  |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.   |   |                             |   |                  |  |  |  |
| Priority under 35 U.S.C. § 119   |   |                             |   |                  |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of: <ol> <li>Certified copies of the priority documents have been received.</li> <li>Certified copies of the priority documents have been received in Application No</li> <li>Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>   |   |                             |   |                  |  |  |  |
| Attachmen  | t(s)  |                             |   |                  |  |  |  |
| 1) Notice  | e of References Cited (PTO-892)   |                             | view Summary (PTO-413)  |                  |  |  |  |
| 2) Notic   | e of Draftsperson's Patent Drawing Review (PTO-94   |                             | Paper No(s)/Mail Date  5) Notice of Informal Patent Application |                  |  |  |  |
|  | mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date  | ·                           | :   |                  |  |  |  |

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## **DETAILED ACTION**

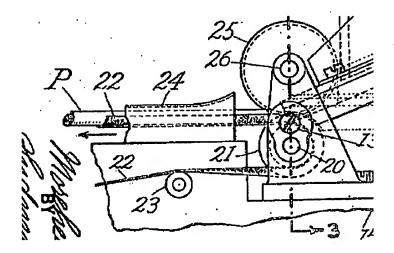
## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1, 2, and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 1885943 to Patterson in view of US 2593284 A to Ewell.
- 4. Regarding applicant claims 1 and 2, Patterson illustrates a device using a garniture tape to wrap a rod shaped article that employs a forming guide that bends the garniture tape into an arc, thus continuously wrapping the continuous rod with paper supplied to the garniture tape, and a roller (guide member) that is upstream of the rod wrapping section. Patterson's roller is shown to have a shape that is convex in reverse to the bend in the garniture tape caused by the forming guide (Figure 1 as seen below, element 21). This roller, having a similar cross section, as the guide member described

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in the instant application, would offset an incremental tension produced upon the tape edges as the tape travels through the rod wrapping section (Figure 1, 24).



Patterson does not disclose employing a roller on both the upstream and downstream guide members as described in the instant application. However, Ewell teaches that the terminal pulley, or other pulleys, of a conveyor could be crown shaped to distribute stretching forces in the belt (Col. 1, 37 -44). Ewell's disclosure is in the conveyor art, to which garniture systems are closely related. As a result, it would have been obvious to one of ordinary skill in the art at the time of invention to employ the rollers described by Patterson and Ewell in a rod wrapping system, both upstream and downstream of the wrapping portion of the device.

5. Regarding applicant claim 3, Ewell discloses that guide rollers with a crown shape are used to prevent the, "destructive, unequal stretching which would occur in belts." Ewell further discloses a method of calculating the crown to be used (Col. 1, 37-44). The determination of extent of curvature of the roller needed to prevent destructive and unequal stretching has the same goal, and likely the same result as determining the travel length of both side edges and that of the central part of the garniture tape and

designing the guide roller cross section accordingly. In addition, the instant application does not point out how the travel length of the edges and center of the tape are measured, and how they are used in determining the roller cross section. It would have been obvious to one of ordinary skill in the art at the time of invention to combine the use measurements of the conveyor belt or tape to determine the optimal cross section or curvature of the crown on the roller in order to counteract stretching forces within the belt or tape.

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6. Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Felton whose telephone number is 571-272-4805. The examiner can normally be reached on Monday to Friday, 7:30 AM to 4:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven P. Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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